

Table of All Modules

Category: Software Environment

DRAFT

This article is being reviewed for completeness and technical accuracy.

The table below shows the available software managed through modules on Pleiades and/or Columbia. To request installation of a software as a module, please send an email to support@nas.nasa.gov

Note that the name of a software module may contain:

- software name
- vendor name
- version number
- varieties such as what compiler and/or what library is used to build the software

For example,

- *comp-intel/11.1.072* represents the Intel Compiler version 11.1.072.
- *mpi-sgi/mpt.2.04.10789* represents the SGI MPI library version mpt.2.04.10789.
- *mpi-mvapich2/1.4.1/intel* represents the MVAPICH2 MPI library version 1.4.1 built with an Intel compiler.

Use the "module avail" command to see all the available versions and provide the full name of a module when you decide to load a module.

Available Modules (as of 30 August 2010)

Software	Platforms	Function
Intel compiler	Pleiades/Columbia	Compiler
Intel mkl	Pleiades/Columbia	Math/Scientific Library
Intel mpi	Pleiades/Columbia	MPI Library
SGI mpt	Pleiades/Columbia	MPI Library
SGI scsl	Columbia	Math/Scientific Library
automake	Columbia	Makefile Tool
boost	Columbia	C++ Library
cpan	Pleiades	Comprehensive Perl Archive Network
cscope	Columbia	Source Code Browsing Tool

drm	Pleiades	X Window Library Tool
eclipse	Pleiades	Software Development Environment
emacs	Pleiades	Text Editor
ensight	Pleiades/Columbia	Data Visualization and Analysis Tool
fieldview	Pleiades/Columbia	Data Visualization and Analysis Tool
flex	Pleiades	Text Scanner Generation Tool
fluent	Pleiades	CFD Modeling Application
gaussian	Pleiades/Columbia	Quantum Chemistry Application
gcc	Pleiades/Columbia	GNU C/C++ Compiler
gd	Pleiades/Columbia	Images Creation Library
git	Pleiades/Columbia	Version Control System
glib	Pleiades/Columbia	Low-level Core Library
gmp	Pleiades/Columbia	Math Library
gnuplot	Pleiades/Columbia	Data Visualization Tool
grace	Pleiades/Columbia	Data Visualization Tool
grads	Pleiades/Columbia	Data Visualization and Analysis Tool
gridgen	Pleiades/Columbia	CFD Grid Generation Tool
gsl	Pleiades/Columbia	GNU Scientific Library
hcss	Pleiades/Columbia	Herschel Common Science System
hdf4	Pleiades/Columbia	I/O Library and Tools
hdf5	Pleiades/Columbia	I/O Library and Tools
idl	Pleiades/Columbia	Data Visualization and Analysis Tool
idn	Pleiades	GNU Libidn
imagemagick	Pleiades/Columbia	Image Tool
java-sdk	Columbia	Programming Language
jpeg	Columbia	Image Tool
jvm	Pleiades	Java Virtual Machine
libxml	Columbia	C Parser and Toolkit
lsdyna3d	Pleiades/Columbia	Finite Element Application
matlab	Pleiades/Columbia	Numerical Computing Environment and Programming Language
mlp	Columbia	Multi-Level Parallelism Library
mpfr	Pleiades	Multiple-Precision Floating-point Computations Library
mpich2	Columbia	MPI Library
mvapich2	Pleiades	MPI Library
ncarg	Pleiades/Columbia	Graphics Library for Scientific Data
ncl	Pleiades/Columbia	NCAR Command Language
nco	Pleiades/Columbia	netCDF Operators
netcdf	Pleiades/Columbia	I/O Library

octave	Pleiades/Columbia	Numerical Computations Language
paraview	Pleiades	Data Visualization and Analysis Tool
parmetis	Pleiades/Columbia	Math/Numerical Library
pdf	Columbia	PDF File Generation Library
perl	Columbia	Programming Language
petsc	Columbia	Math/Numerical Library
parallel netcdf	Pleiades/Columbia	Parallel I/O Library
png	Columbia	Portable Network Graphics Format
pyMPI	Columbia	MPI Program Development with Python
python	Pleiades/Columbia	Programming Language
ruby	Pleiades	Programming Language
svn	Pleiades/Columbia	Revision Control Application
swig	Pleiades/Columbia	Software Development Tool
tcl-tk	Pleiades/Columbia	Scripting Language
tecplot	Pleiades/Columbia	Data Visualization and Analysis Tool
texlive	Pleiades	TeX System Application
totalview	Pleiades/Columbia	Debugger
udunits	Pleiades/Columbia	Data Format Library
visit	Pleiades/Columbia	Data Visualization and Analysis Tool
xv	Pleiades	Images Display Application
xxdiff	Pleiades	Graphical File And Directories Comparator And Merge Tool
yaml	Pleiades/Columbia	Human-Readable Data Serialization Format
zlib	Columbia	Data Compression Library

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<http://www.nas.nasa.gov/hecc/support/kb/entry/116/?ajax=1>